

Re-RUN



1600

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/888,721

DATE: 01/30/2003
 TIME: 11:34:25

Input Set : N:\Crf4\01242003\I888721A.raw
 Output Set: N:\CRF4\01302003\I888721.raw

1 <110> APPLICANT: Huston, James S.
 2 Wils, Pierre
 3 Zhu, Quan
 4 Laurent, Olivier
 5 Marasco, Wayne A.
 6 Scherman, Daniel
 7 <120> TITLE OF INVENTION: BIOENGINEERED VEHICLES FOR TARGETED NUCLEIC ACID
 8 DELIVERY
 9 <130> FILE REFERENCE: 23611-A USA
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/888,721
 11 <141> CURRENT FILING DATE: 2001-06-25
 12 <150> PRIOR APPLICATION NUMBER: 60/213,653
 13 <151> PRIOR FILING DATE: 2000-06-23
 14 <160> NUMBER OF SEQ ID NOS: 51
 15 <170> SOFTWARE: PatentIn Ver. 3.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 18
 19 <212> TYPE: PRT
 20 <213> ORGANISM: Homo sapiens
 21 <400> SEQUENCE: 1
 22 Ser Arg Ser Arg Tyr Tyr Arg Gln Arg Gln Arg Ser Arg Arg Arg Arg Arg
 23 1 5 10 15
 24 Arg Arg
 26 <210> SEQ ID NO: 2
 27 <211> LENGTH: 26
 28 <212> TYPE: PRT
 29 <213> ORGANISM: Homo sapiens
 30 <400> SEQUENCE: 2
 31 Ala Lys Lys Ala Lys Ser Pro Lys Lys Ala Lys Ala Ala Lys Pro Lys
 32 1 5 10 15
 33 Lys Ala Pro Lys Ser Pro Ala Lys Ala Lys
 34 20 25
 36 <210> SEQ ID NO: 3
 37 <211> LENGTH: 10
 38 <212> TYPE: PRT
 39 <213> ORGANISM: Adenovirus
 40 <400> SEQUENCE: 3
 41 Ser Gly Pro Ser Asn Thr Pro Pro Glu Ile
 42 1 5 10
 44 <210> SEQ ID NO: 4
 45 <211> LENGTH: 9
 46 <212> TYPE: PRT
 47 <213> ORGANISM: Human papillomavirus

ENTERED

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,721

DATE: 01/30/2003
TIME: 11:34:25

Input Set : N:\Crf4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

48 <400> SEQUENCE: 4
49 Arg Ala His Tyr Asn Ile Val Thr Phe
50 1 5
52 <210> SEQ ID NO: 5
53 <211> LENGTH: 10
54 <212> TYPE: PRT
55 <213> ORGANISM: Human papillomavirus
56 <400> SEQUENCE: 5
57 Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn
58 1 5 10
60 <210> SEQ ID NO: 6
61 <211> LENGTH: 10
62 <212> TYPE: PRT
63 <213> ORGANISM: Human papillomavirus
64 <400> SEQUENCE: 6
65 Ala Glu Pro Asp Arg Ala His Tyr Asn Ile
66 1 5 10
68 <210> SEQ ID NO: 7
69 <211> LENGTH: 19
70 <212> TYPE: PRT
71 <213> ORGANISM: Human papillomavirus
72 <400> SEQUENCE: 7
73 Lys Cys Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Ile
74 1 5 10 15
75 Arg Thr Leu
77 <210> SEQ ID NO: 8
78 <211> LENGTH: 10
79 <212> TYPE: PRT
80 <213> ORGANISM: Human papillomavirus
81 <400> SEQUENCE: 8
82 Gly Thr Leu Gly Ile Val Cys Pro Ile Cys
83 1 5 10
85 <210> SEQ ID NO: 9
86 <211> LENGTH: 10
87 <212> TYPE: PRT
88 <213> ORGANISM: Epstein-Barr Virus
89 <400> SEQUENCE: 9
90 Asp Thr Pro Leu Ile Pro Leu Thr Ile Phe
91 1 5 10
93 <210> SEQ ID NO: 10
94 <211> LENGTH: 15
95 <212> TYPE: PRT
96 <213> ORGANISM: Epstein-Barr Virus
97 <400> SEQUENCE: 10
98 Pro Arg Ser Pro Thr Val Phe Tyr Asn Ile Pro Pro Met Pro Leu
99 1 5 10 15
101 <210> SEQ ID NO: 11
102 <211> LENGTH: 9
103 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,721

DATE: 01/30/2003
TIME: 11:34:25

Input Set : N:\Crf4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

104 <213> ORGANISM: Epstein-Barr Virus
105 <400> SEQUENCE: 11
106 Phe Leu Arg Gly Arg Ala Tyr Gly Leu
107 1 5
109 <210> SEQ ID NO: 12
110 <211> LENGTH: 15
111 <212> TYPE: PRT
112 <213> ORGANISM: Epstein-Barr Virus
113 <400> SEQUENCE: 12
114 Arg Gly Ile Lys Glu His Val Ile Gln Asn Ala Phe Arg Lys Ala
115 1 5 10 15
117 <210> SEQ ID NO: 13
118 <211> LENGTH: 10
119 <212> TYPE: PRT
120 <213> ORGANISM: Epstein-Barr Virus
121 <400> SEQUENCE: 13
122 Glu Glu Asn Leu Leu Asp Phe Val Arg Phe
123 1 5 10
125 <210> SEQ ID NO: 14
126 <211> LENGTH: 9
127 <212> TYPE: PRT
128 <213> ORGANISM: Epstein-Barr Virus
129 <400> SEQUENCE: 14
130 Ile Val Thr Asp Phe Ser Val Ile Lys
131 1 5
133 <210> SEQ ID NO: 15
134 <211> LENGTH: 9
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 15
138 Leu Leu Gly Arg Asn Ser Pro Glu Val
139 1 5
141 <210> SEQ ID NO: 16
142 <211> LENGTH: 13
143 <212> TYPE: PRT
144 <213> ORGANISM: Murine sarcoma virus
145 <400> SEQUENCE: 16
146 Lys Leu Val Val Val Gly Ala Arg Gly Val Gly Lys Ser
147 1 5 10
149 <210> SEQ ID NO: 17
150 <211> LENGTH: 12
151 <212> TYPE: PRT
152 <213> ORGANISM: Homo sapiens
153 <400> SEQUENCE: 17
154 Lys Leu Val Val Val Gly Ala Val Gly Val Gly Lys
155 1 5 10
157 <210> SEQ ID NO: 18
158 <211> LENGTH: 16
159 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,721

DATE: 01/30/2003
TIME: 11:34:25

Input Set : N:\Crf4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

160 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 18
162 Asp Ile Leu Asp Thr Ala Gly Leu Glu Glu Tyr Ser Ala Met Arg Asp
163 1 5 10 15
165 <210> SEQ ID NO: 19
166 <211> LENGTH: 8
167 <212> TYPE: PRT
168 <213> ORGANISM: Homo sapiens
169 <400> SEQUENCE: 19
170 Gly Leu Glu Glu Tyr Ser Ala Met
171 1 5
173 <210> SEQ ID NO: 20
174 <211> LENGTH: 10
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
177 <400> SEQUENCE: 20
178 Glu Leu Val Ser Glu Phe Ser Arg Met Ala
179 1 5 10
181 <210> SEQ ID NO: 21
182 <211> LENGTH: 15
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
185 <400> SEQUENCE: 21
186 His Leu Asp Met Leu Arg His Leu Tyr Gln Gly Cys Gln Val Val
187 1 5 10 15
189 <210> SEQ ID NO: 22
190 <211> LENGTH: 15
191 <212> TYPE: PRT
192 <213> ORGANISM: Homo sapiens
193 <400> SEQUENCE: 22
194 Ser Arg Leu Leu Gly Ile Cys Leu Thr Ser Thr Val Gln Leu Val
195 1 5 10 15
197 <210> SEQ ID NO: 23
198 <211> LENGTH: 9
199 <212> TYPE: PRT
200 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 23
202 Glu Ala Asp Pro Thr Gly His Ser Tyr
203 1 5
205 <210> SEQ ID NO: 24
206 <211> LENGTH: 10
207 <212> TYPE: PRT
208 <213> ORGANISM: Homo sapiens
209 <400> SEQUENCE: 24
210 Leu Leu Asp Gly Thr Ala Thr Leu Arg Leu
211 1 5 10
213 <210> SEQ ID NO: 25
214 <211> LENGTH: 9
215 <212> TYPE: PRT

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/888,721

DATE: 01/30/2003
TIME: 11:34:25

Input Set : N:\Crf4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

216 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 25
218 Tyr Leu Glu Pro Gly Pro Val Thr Ala
219 1 5
221 <210> SEQ ID NO: 26
222 <211> LENGTH: 9
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens
225 <400> SEQUENCE: 26
226 Met Leu Leu Ala Val Leu Tyr Cys Leu
227 1 5
229 <210> SEQ ID NO: 27
230 <211> LENGTH: 9
231 <212> TYPE: PRT
232 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 27
234 Tyr Met Asn Gly Thr Met Ser Gln Val
235 1 5
237 <210> SEQ ID NO: 28
238 <211> LENGTH: 9
239 <212> TYPE: PRT
240 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 28
242 Tyr Met Asn Gly Thr Met Ser Glu Val
243 1 5
245 <210> SEQ ID NO: 29
246 <211> LENGTH: 21
247 <212> TYPE: PRT
248 <213> ORGANISM: Homo sapiens
249 <400> SEQUENCE: 29
250 Ala Ala Gly Ile Gly Ile Leu Thr Val Ile Leu Gly Val Leu Leu Leu
251 1 5 10 15
252 Ile Gly Cys Trp Tyr
253 20
255 <210> SEQ ID NO: 30
256 <211> LENGTH: 9
257 <212> TYPE: PRT
258 <213> ORGANISM: Simian virus 40
259 <400> SEQUENCE: 30
260 Thr Pro Pro Lys Lys Lys Arg Lys Val
261 1 5
263 <210> SEQ ID NO: 31
264 <211> LENGTH: 14
265 <212> TYPE: PRT
266 <213> ORGANISM: Homo sapiens
267 <400> SEQUENCE: 31
268 Lys Lys Ser Ala Lys Lys Thr Pro Lys Lys Ala Lys Lys Pro
269 1 5 10
271 <210> SEQ ID NO: 32

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/30/2003
PATENT APPLICATION: US/09/888,721 TIME: 11:34:26

Input Set : N:\CrF4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:50

VERIFICATION SUMMARY

PATENT APPLICATION: **US/09/888,721**

DATE: 01/30/2003

TIME: 11:34:26

Input Set : N:\Crf4\01242003\I888721A.raw
Output Set: N:\CRF4\01302003\I888721.raw

L:10 M:270 C: Current Application Number differs, Wrong Format